

Title (en)
Heat pump

Title (de)
Wärmepumpe

Title (fr)
Pompe à chaleur

Publication
EP 2325579 A2 20110525 (EN)

Application
EP 10251314 A 20100723

Priority
KR 20090112739 A 20091120

Abstract (en)
Disclosed is a heat pump including: a refrigeration cycle unit 1 that includes a compressor 10 for compressing a coolant, a first heat exchanger 14 for condensing the coolant compressed in the compressor, an expansion mechanism 16 for expanding the coolant condensed in the first heat exchanger, and a second heat exchanger 18 for evaporating the coolant expanded in the expansion mechanism 16; and a booster module 2 that is connected to the refrigeration cycle unit 1, wherein the booster module 2 separates a gaseous coolant from the coolant flowing from the first heat exchanger 14 to the expansion mechanism 16, compresses the separated gaseous coolant, and then has the compressed gaseous coolant flow between the compressor 10 and the first heat exchanger 14.

IPC 8 full level
F25B 1/10 (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP KR US)
F25B 1/10 (2013.01 - EP KR US); **F25B 13/00** (2013.01 - EP KR US); **F25B 30/02** (2013.01 - KR); **F25B 41/30** (2021.01 - KR); **F25B 43/02** (2013.01 - KR); **F25B 49/02** (2013.01 - KR); **F25B 2313/003** (2013.01 - EP KR US); **F25B 2339/047** (2013.01 - EP KR US); **F25B 2400/13** (2013.01 - EP KR US); **F25B 2400/23** (2013.01 - EP KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2325579 A2 20110525; **EP 2325579 A3 20150114**; **EP 2325579 B1 20170830**; CN 102072590 A 20110525; CN 102072590 B 20130612; KR 101321549 B1 20131030; KR 20110056060 A 20110526; US 2011120180 A1 20110526; WO 2011062349 A1 20110526; WO 2011062349 A4 20110728

DOCDB simple family (application)
EP 10251314 A 20100723; CN 201010134499 A 20100316; KR 20090112739 A 20091120; KR 2010004791 W 20100721; US 84763210 A 20100730